

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

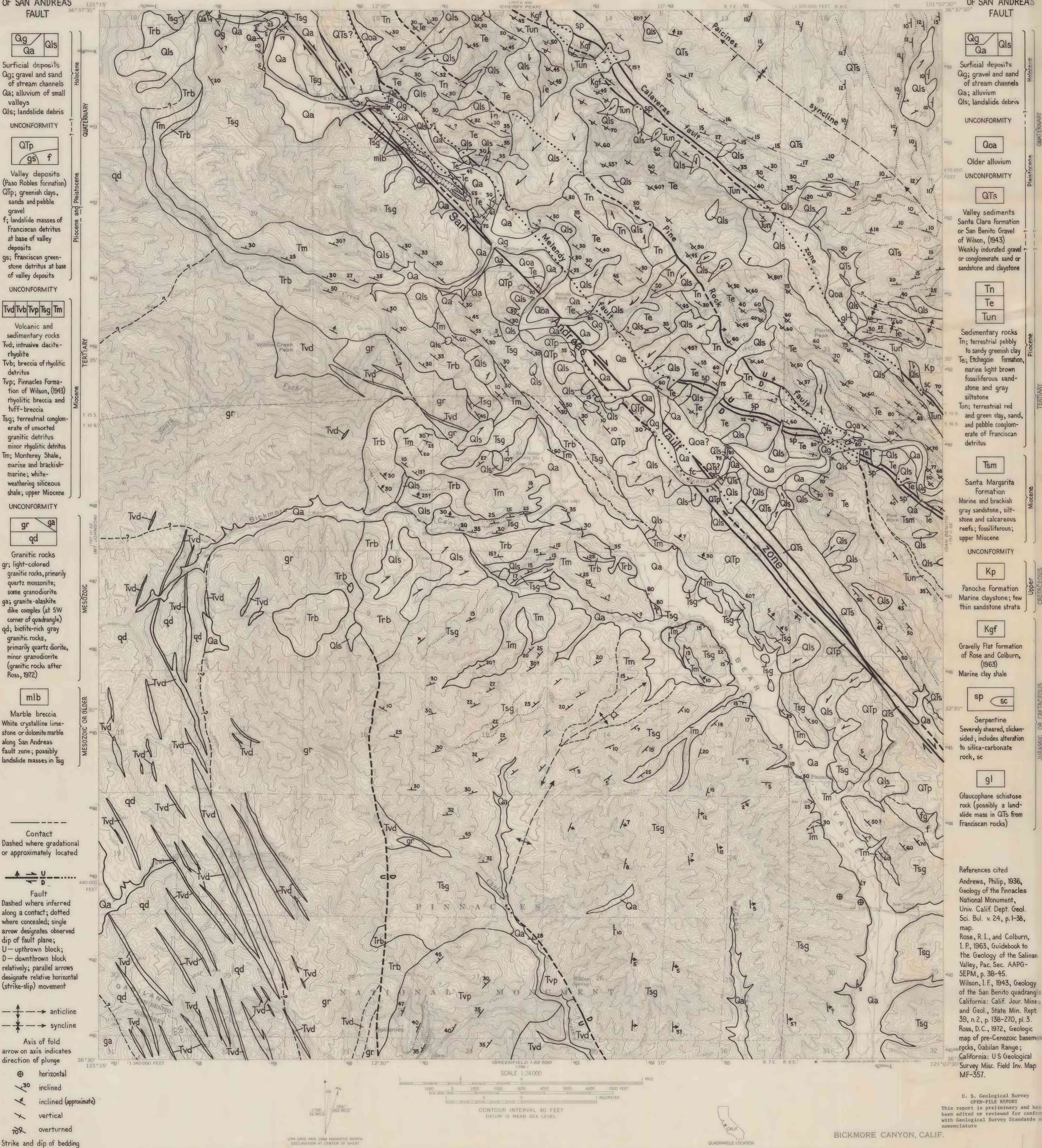
OPEN FILE REPORT 79-701

BICKMORE CANYON QUADRANGLE  
CALIFORNIA  
7.5 MINUTE SERIES (TOPOGRAPHIC)  
S194 SAN BENITO 18 QUADRANGLE

UNITS SW  
OF SAN ANDREAS  
FAULT

UNITS NE  
OF SAN ANDREAS  
FAULT

STATE OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES



Qg Qls  
Qa Qls

Surficial deposits  
Qg; gravel and sand  
of stream channels  
Qa; alluvium of small  
valleys  
Qls; landslide debris  
UNCONFORMITY

QTP  
gs f

Valley deposits  
(Paso Robles Formation)  
QTP; greenish clays,  
sands and pebble  
gravel  
f; landslide masses of  
Franciscan detritus  
at base of valley  
deposits  
gs; Franciscan green-  
stone detritus at base  
of valley deposits  
UNCONFORMITY

Tvd Tvb Tvp Tsg Tm

Volcanic and  
sedimentary rocks  
Tvd; intrusive dacite-  
rhyolite  
Tvb; breccia of rhyolitic  
detritus  
Tvp; Pinnacles Forma-  
tion of Wilson, (1943)  
rhyolitic breccia and  
tuff-breccia  
Tsg; terrestrial conglom-  
erate of unsorted  
granitic detritus  
minor rhyolitic detritus  
Tm; Monterey Shale,  
marine and brackish-  
marine; white-  
weathering siliceous  
shale; upper Miocene  
UNCONFORMITY

gr ga  
qd

Granitic rocks  
gr; light-colored  
granitic rocks, primarily  
quartz monzonite;  
some granodiorite  
ga; granite-alaskite  
dike complex (at SW  
corner of quadrangle)  
qd; biotite-rich gray  
granitic rocks,  
primarily quartz diorite,  
minor granodiorite  
(granitic rocks after  
Ross, 1972)

mlb

Marble breccia  
White crystalline lime-  
stone or dolomite marble  
along San Andreas  
fault zone; possibly  
landslide masses in Tsg

Contact  
Dashed where gradational  
or approximately located

Fault  
Dashed where inferred  
along a contact; dotted  
where concealed; single  
arrow designates observed  
dip of fault plane;  
U—upthrown block;  
D—downthrown block  
relatively; parallel arrows  
designate relative horizontal  
(strike-slip) movement

anticline  
syncline

Axis of fold  
arrow on axis indicates  
direction of plunge

horizontal  
inclined  
inclined (approximate)  
vertical  
overturned

Strike and dip of bedding  
Sandstone or conglomerate bed  
Direction of downslope move-  
ment of landslides  
Abandoned test hole

Qg Qls  
Qa Qls

Surficial deposits  
Qg; gravel and sand  
of stream channels  
Qa; alluvium  
Qls; landslide debris  
UNCONFORMITY

Qoa

Older alluvium  
UNCONFORMITY

QTS

Valley sediments  
Santa Clara Formation  
or San Benito Gravel  
of Wilson, (1943)  
Weakly indurated gravel  
or conglomerate sand or  
sandstone and claystone

Tn  
Te  
Tun

Sedimentary rocks  
Tn; terrestrial pebbly  
to sandy greenish clay  
Te; Etchegoin Formation,  
marine light brown  
fossiliferous sand-  
stone and gray  
siltstone  
Tun; terrestrial red  
and green clay, sand,  
and pebble conglom-  
erate of Franciscan  
detritus

Tsm

Santa Margarita  
Formation  
Marine and brackish  
gray sandstone, silt-  
stone and calcareous  
reefs; fossiliferous;  
upper Miocene  
UNCONFORMITY

Kp

Panoche Formation  
Marine claystone; few  
thin sandstone strata

Kgf

Gravelly Flat Formation  
of Rose and Colburn,  
(1963)  
Marine clay shale

sp sc

Serpentine  
Severely sheared, slicken-  
sided; includes alteration  
to silica-carbonate  
rock, sc

gl

Glaucophane schistose  
rock (possibly a land-  
slide mass in QTS from  
Franciscan rocks)

References cited  
Andrews, Philip, 1936,  
Geology of the Pinnacles  
National Monument,  
Univ. Calif. Dept. Geol.  
Sci. Bul. v. 24, p. 1-38,  
map.  
Rose, R. I., and Colburn,  
I. P., 1963, Guidebook to  
the Geology of the Salinas  
Valley, Pac. Sec. AAPG-  
SEPM, p. 38-45.  
Wilson, I. F., 1943, Geology  
of the San Benito quadran-  
gle, California: Calif. Jour. Mines  
and Geol., State Min. Rept  
39, n. 2, p. 138-270, pl. 3.  
Ross, D. C., 1972, Geologic  
map of pre-Cenozoic basement  
rocks, Gabilan Range;  
California: U.S. Geological  
Survey Misc. Field Inv. Map  
MF-357.

U. S. Geological Survey  
OPEN-FILE REPORT  
This report is preliminary and has  
not been edited or reviewed for  
conformity with Geological Survey  
standards and nomenclature

PRELIMINARY GEOLOGIC MAP OF THE BICKMORE CANYON QUADRANGLE, SAN BENITO AND MONTEREY COUNTIES, CALIFORNIA

By Thomas W. Dibblee, Jr.  
1979